

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference KP-10040PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/JP2005/005999	International filing date (<i>day/month/year</i>) 23.03.2005	Priority date (<i>day/month/year</i>) 26.03.2004
International Patent Classification (IPC) or national classification and IPC Int.Cl. H01L23/02 (2006.01), H01L27/14 (2006.01)		
Applicant FUJI PHOTO FILM CO., LTD.		

1.	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2.	This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.
3.	This report is also accompanied by ANNEXES, comprising: <div style="margin-left: 20px;"> a. <input type="checkbox"/> a total of _____ sheets, as follows: <div style="margin-left: 20px;"> <input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. </div> </div> b. <input type="checkbox"/> a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4.	This report contains indications relating to the following items: <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input checked="" type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application </div>

Date of submission of the demand 16.01.2006	Date of completion of this report 01.06.2006	
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2005/005999

Box No. I **Basis of the report**1. With regard to the **language**, this report is based on:

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rules 12.3(a) and 23.1(b))
- ☐ publication of the international application (Rule 12.4(a))
- ☐ international preliminary examination (Rules 55.2(a) and/or 55.3(a))

2. With regard to the **elements** of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

- ☒ the international application as originally filed/furnished
- ☐ the description:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the claims:
- Nos. _____ as originally filed/furnished
- Nos.* _____ as amended (together with any statement) under Article 19
- Nos.* _____ received by this Authority on _____
- Nos.* _____ received by this Authority on _____
- ☐ the drawings:
- sheets/figs _____ as originally filed/furnished
- sheets/figs * _____ received by this Authority on _____
- sheets/figs * _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement				
Novelty (N)	Claims	1-31		YES
	Claims			NO
Inventive step (IS)	Claims	4-7, 9, 10, 12-14, 16, 18-20, 23, 28, 29, 31		YES
	Claims	1-3, 8, 11, 15, 17, 21, 22, 24-27, 30		NO
Industrial applicability (IA)	Claims	1-31		YES
	Claims			NO
2. Citations and explanations(Rule 70.7)				
<p>D1: JP 2002-231921 A(OLYMPUS OPTICAL CO. LTD.), 2002.08.16, [0018]-[0038], Fig.1-4 (Family: None)</p> <p>D2: JP 1-310565 A(TOMOEGAWA PAPER MANUFACTURING CO. LTD.), 1989.12.14, line 7, column 3, page 2 to line 3, column 1, page 3, Fig.1,2 (Family: None)</p> <p>D3: JP 5-160340 A(MITSUBISHI HEAVY INDUSTRIES LTD.), 1993.06.25, [0013]-[0026], Fig.5 (Family: None)</p> <p>D4: JP 2004-312666 A (FUJI PHOTO FILM CO. LTD.), 2004.11.04, [0027]-[0054], Fig.1-10 & EP 1463120 A2 & US 2004/0189855 A1</p> <p>The subject matter of claim 1-3,25 does not appear to involve an inventive step in view of D1 and D2.</p> <p>Although D1 does not disclose the technical feature about providing an adhesive layer on the sealing substrate by using transcribing sheet, said feature is disclosed in D2 and applied to seal plural CCD devices by a cover glass.</p> <p>D1 also does not disclose a parallelism adjusting, however, keeping two substrates parallel while joining substrates is well-known technique.</p> <p>The subject matter of claim 8 does not appear to involve an inventive step in view of D1 and D2.</p> <p>Using an antistatic plastic film as a transcribing sheet is widely-known technique.</p> <p>The subject matter of claim 11,15,17,21,22,26,27,30 does not appear to involve an inventive step in view of D1-D3.</p> <p>D3 discloses the technical feature about adjusting inclination of a wafer by measuring gaps of two substrates.</p> <p>The subject matter of claim 24 does not appear to involve an inventive step in view of D1 and D2.</p> <p>Manufacturing semiconductor devices inside a clean booth is well-known technique.</p>				

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Box No. VI Certain documents cited

1. Certain published documents (Rules 70.10)

<u>Application No. Patent No.</u>	<u>Publication date (day/month/year)</u>	<u>Filing date (day/month/year)</u>	<u>Priority date (valid claim) (day/month/year)</u>
JP 2004-312666 A 'EX'	04/11/2004	11/09/2003	25/03/2003

2. Non-written disclosures (Rules 70.9)

<u>Kind of non-written disclosure</u>	<u>Date of non-written disclosure (day/month/year)</u>	<u>Date of written disclosure referring to non-written disclosure (day/month/year)</u>
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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: V.2

The subject matter of claim 4-7 is considered to involve an inventive step over D1-D4.

None of the prior art documents describes peeling a transcribing sheet with a roller.

The subject matter of claim 9,10 is considered to involve an inventive step over D1-D4.

None of the prior art documents describes pressurizing a transcribing sheet through a cushion.

The subject matter of claim 12-14,29 is considered to involve an inventive step over D1-D4.

None of the prior art documents describes measuring gaps by transmission illuminating devices.

The subject matter of claim 16,18-20,28,31 is considered to involve an inventive step over D1-D4.

None of the prior art documents describes a plate supporting mechanism for swingably supporting a substrate.

The subject matter of claim 23 is considered to involve an inventive step over D1-D4.

None of the prior art documents describes the use of light-delayed curing adhesive.